HW 5.3: Absolute Value Equations

Due Date: Thursday, Sept. 12th, 2012

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 1) a. Find the solution set of |x | = 15.    b. Check your answers | 2) a. What are the values that satisfy |x-3| = 15?    b. Check your answers | |
| 3) a. What is the solution set of |2x| = 18  b. Check your answers | 4) a. Find the solution set of |2x – 1| = 18  b. Check your answers | |
| 5) Determine whether the following statements are true or false:  Description: http://image.tutorvista.com/Qimages/QD/39197.gif   1. Points R, C and T are coplanar. \_\_\_\_\_\_\_ 2. Line LS is the segment bisector of line ME. \_\_\_\_\_\_\_ 3. Points N and K are non-coplanar. \_\_\_\_\_\_\_   There are 2 non-coplanar points M and E. \_\_\_\_\_\_\_ | | 6) On a number line, point W is located at 3, X is located at –5, Y is located at –16, and Z is located at 11. What is the distance, in coordinate units, between points W and Z? |
| 7) What is the midpoint of the line segment with endpoints (-1, -2) and (3, -4)? |
| 8) A line segment has an endpoint of Q(6, -3) and a midpoint R(5, -5). What is the other endpoint S? | 9) Segment AB measures 3x + 25 cm. Segment BC measures 12x – 10. What is the measure of segment AB if AC is equal to 100 cm? | |

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| 10) Rearrange the equation in slope-intercept form.    Y-intercept: \_\_\_\_\_\_ Slope: \_\_\_\_\_  Graph: | 11) Rearrange the equation in slope-intercept form.    Y-intercept: \_\_\_\_\_\_ Slope: \_\_\_\_\_  Graph: |
| 12) Rearrange the equation in slope-intercept form.    Y-intercept: \_\_\_\_\_\_ Slope: \_\_\_\_\_  Graph: | 13) Rearrange the equation in slope-intercept form.    Y-intercept: \_\_\_\_\_\_ Slope: \_\_\_\_\_  Graph: |